

Informal Working Group 3 (IWG-3)

Preparation for WRC-03

DRAFT PRELIMINARY VIEW

Agenda Item 1.34: to review the results of studies in response to Resolution 539 (WRC-2000) concerning threshold values for non-GSO BSS (sound) in the band 2630-2655 MHz and to take action as required.

Issue

Should the provisional PFD thresholds for non-GSO BSS (sound) networks in Resolution 539 be made permanent or modified?

Background

This agenda item is prompted by the provisions of footnote; S5.418 adopted at WARC-92 and modified at WRC-2000, and actions taken at WRC-2000 that identified the band 2500-2690 MHz as an additional band for IMT-2000 systems. The referenced footnote provides for BSS (sound) systems in the band 2630-2655 MHz in the countries listed in the footnote*, which are in Region 3, and exempts such type of systems from the PFD limits indicated in Table S21-4 of the Radio Regulations for BSS and FSS networks. Res. 539 gives provisional threshold levels for Non-GSO BSS systems in this band. Invites 2 of the associated Resolution 539 refers to the band 2535-2655 MHz, which has the potential to expand the scope of the agenda item and may implicate other services in other parts of the band.

The lead group for development of CPM text is WP 6S (BSS). A very interested contributing group is WP 8F (IMT-2000). WP 6S has established Special Rapporteur Group (SRG) 6S/11 to prepare a report on the technical sharing issue, i.e., the values of the PFD thresholds.

*Bangladesh, Belarus, Korea (Rep of), India, Japan, Pakistan, Singapore, Sri Lanka and Thailand.

There are a number of administrations that either have or are proposing BSS and BSS (sound) systems for this band. These include India (operational GSO/BSS), Malaysia, (proposed GSO/BSS (sound)), Japan (proposed NGSO/BSS/GSO (sound)), Indonesia (operational GSO/BSS), and Canada (proposed GSO/BSS), Vietnam (proposed GSO/BSS), Saudi Arabia (operational GSO/BSS), Tonga (proposed GSO/BSS) and Brunei Darussalam (proposed GSO/BSS).

There have been a number of technical contributions to SRG 6S/11. It appears that representatives of European countries support the use of this band for IMT-2000 and advocate PFD threshold values that are more restrictive than those in S21-4. In WP-8F meetings there has been particular disagreement between satellite and IMT-2000 advocates over what I/N value should be used as a coordination threshold. It should be noted that the text of footnote S5.384A reads “this identification (for IMT-2000) does not preclude the use of these bands by any application of the services in which they are allocated and does not establish priority in the Radio Regulations.” This ensures that administrations are free to determine how spectrum is used in their country, subject to appropriate technical limits to protect use of the spectrum by other administrations, and a concept that the US has strongly supported as being essential in any bands identified for IMT-2000.

In many countries, including the US, studies are being performed to determine the appropriate bands for the implementation of IMT-2000. There are a number of incumbent services in this band that need to have continued access to the spectrum. For example, in the USA today there exists extensive ITFS, MMDS and two-way internet access systems.

Preliminary U.S. View

1. The use of the band 2630-2655 MHz by IMT-2000 systems should not preclude the use of this band by any application of the services to which they are allocated and no radio service should have priority over other services also allocated on a primary basis in this band and should include appropriate technical provisions.

2. The PFD threshold values for non-GSO BSS (sound) systems in the band 2630-2655 MHz in Region 3 should be maintained at the levels in Res. 539 unless ITU-R studies demonstrate a need to change them consistent with the View in #1 above.
3. Subject to the date provisions of Res. 539, existing satellite networks (i.e., those for which Coordination or Notification information has been provided to the ITU) should not be subject to more restrictive PFD threshold values or limits than those currently in Resolution 539 and S21-4, and any changes in these limits must not be applied retroactively to these existing satellite networks.
4. The scope of the agenda item should not be expanded beyond the question of PFD threshold values for non-GSO BSS (sound) in the band 2630-2655 MHz in relation to the Region 3 countries listed in footnote S5.418.